

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON, D.C.



NO: PMD 4047(29)/12431F
PROGRAM OFFICER:
Major Luchte, AF/XOOSO
AV 227-3710

DATE: 3 May 1990
PROGRAM MONITORS:
Major Evans, SAF/AQSD
AV 224-8447
Ms Cira, AF/LEXY
AV 227-0311

PROGRAM MANAGEMENT DIRECTIVE

FOR

DEFENSE SUPPORT PROGRAM (DSP)

For: Implementing Unit - AFPEO/SP
Supporting Commands - AFLC, AFSPACECOM (for the European Ground Station)
Participating Commands - AFSC, ATC, AFTAC, AFCSC, AFCC, MAC, SIO
Operating Command - AFSPACECOM
OT&E Command/Agency - AFOTEC (DSP-I), AFSPACECOM (Other Efforts)

1. EXECUTIVE SUMMARY. This Program Management Directive supersedes PMD 4047 (28)/12431F, dated 18 Apr 89. This PMD directs changes to the DSP necessary to complete the baseline DSP-I system thereby improving system performance and continued acquisition of system components to maintain operational mission support, and revises program funding.

2. PROGRAM SUMMARY:

A. References.

(1) Required Documents:

(a) DepSecDef memo for SAF, Subject: DSARC I for Advanced Warning Systems, 15 Feb 80 ; and (U) SAF/AL memo for USAF/CV, Subject: DSP DSARC I Implementation, 3 Mar 80

(c) Mission Element Need Statement (MENS) for Improved Missile Warning and Attack Assessment, SecDef memo to SAF March 19, 1980

(d) Defense Support Program System Operational Concept, Rev 3, 1 December 1987

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(2) Related Documents:

(a) Statement of Operational Need 201-82, Survivable and Enduring Missile Warning System (SEMWS), October 11, 1982

(b) Integrated Attack Warning and Attack Assessment Architecture, Vol I, 17 Mar 87 and Vol II - VII, 17 Feb 86

(c) Threat Assessment Report, Defense Support Program, SSD-1400F-26-89, May 89

(d) Space Threat Environment Description, SD-2660F-789-86, 31 December 1986 as amended

(e) PMD 1021/63735F/33605F, Implementation of the Air Force Portion of the Jam-Resistant Secure Communications (JRSC) Program and the Defense Satellite Communications (DSCS) Program Ground Terminal Segment and Control Segment, latest revision

(f) PMD 1044/12313F, Integrated Tactical Warning/Attack Assessment (TW/AA) System, latest revision

(g) PMD 2053/33601F, Milstar Satellite Communications System (AF Terminals), latest revision

(h) PMD 2013/33603F, Milstar Satellite Communications System (Space and Mission Control), latest revision

(i) PMD 9247/12310F, Cheyenne Mountain Upgrade (CMU) Programs, latest revision

(k) PMD 7123/35171F, Space Launch Support, latest revision

(l) PMD 9038/35110F/25151F, AF Satellite Control Network (AFSCN), latest revision

(m) PMD 0938/35144F, Titan Space Boosters Program, latest revision

(n) Memorandum of Agreement Among AFSPACECOM, AFLC, and AFSC for the Joint Support of Space and Warning Systems, 12 July 87

8. Priorities. This program carries a USAF Precedence Rating of 1-1 (FAD 1).

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(1) Primary Mission. (Mission A) The DSP system is to report in near real time intercontinental Ballistic Missile (ICBM) launches/raids, Sea Launched Ballistic Missile (SLBM) launches/raids, and space launches.

D. Authority and Deviations. This PMD will be conducted according to AFR 800-2, -3, -4, -11, -14, -18, -19, -23; AFR 50-8; AFR 50-11; AFR 55-43; AFR 80-2, -7, -14, -38; AFR 56-50; AFR 57-1; AFR 200-13; AFR 50-9; AFR 205-16; AFR 207-1, -21; AFR 400-3; AFR 700 series; and other related regulations as appropriate.

3. PROGRAM DIRECTION. The following actions are mandatory. SAF/AQS and AF/XOO/LEX will be notified immediately, in advance when possible, of any inability to comply. AFSPACECOM should be included in the notification if conditions could adversely impact operational performance of the DSP system.

A. The Program Executive Officer (PEO) will:

(1) Maintain, with AFSPACECOM support, the force structure to accomplish the DSP mission.

(2) Maintain system level and satellite engineering responsibility. Maintain ground system engineering responsibility prior to PMRT of the Ground Data System (GDS).

(3) Plan to launch one satellite with the Space Shuttle/Inertial Upper Stage. PE 35171F, Space Launch Support, will provide funding for standard payload integration and operations reimbursement to NASA for one mission.

(4) Plan to launch the other remaining DSP-I satellites with the Titan IV. Satellites 15 and beyond will be totally compatible for launch on

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(3.A. PEO, cont.)

the Space Shuttle or the Titan IV.

(5) Continue the acquisition of satellites 15 through 17. Continue the acquisition of satellites 18-22 with a Multiyear Procurement contract through FY 91. Procure satellite 21 in FY 90 and satellite 22 in FY 91. Plan for the procurement of satellites 23 and 24 in the FY 92-95 time-frame. Plan and budget for additional satellites as required to support the DSP mission. Plan and budget for the correction of spacecraft and sensor deficiencies identified by AFSPACECOM to meet validated requirements. For procurement planning, satellites 23-24 will duplicate satellites 18-22. These additional satellites shall maintain the existing configuration baseline unless performance deficiencies dictate that changes are required.

(6) Accomplish the following tasks for all ground systems:

(a) Work with AFSPACECOM and AFLC to develop a plan for meeting DSP-I system requirements for ground systems in order to ensure adequate system performance and supportability at minimum cost through transition to the follow-on system.

(b) Incorporate the SIO and AFSPACECOM approved Standard Survivable Message Set (SSMS). Plan and budget for the incorporation of the Survivable Communication Integration System (SCIS).

(c) Plan and budget for an R&M Improvement program for the LPS, MGS, and EGS as specified in the AFSPACECOM SOC.

(d) Plan and budget for correction of ground systems deficiencies identified by AFSPACECOM to meet validated requirements.

(7) Accomplish the following tasks for Mobile Ground Systems:

(a) Plan and budget for an austere/secure backup commanding and status capability to include a maintenance and training capability via spacecraft simulator.

(b) Plan and implement a minimum essential Mobile Field Command, Control and Communications (MFCCC) system.

(c) Plan and budget for operational second color and above-the-horizon (ATH) processing.

(8) Accomplish the following tasks for the Large Processing Stations:

(3.A. PEO, cont.)

(a) Implement a stereo capability, improved algorithms and improved software maintainability.

(b) Upgrade the Satellite Readout Station (SRS) equipment including that of the Multi-Purpose Facility (MPF).

(10) Plan the Program Management Responsibility Transfer (PMRT) of the DSP Ground Data System (GDS) to AFLC for September 1994.

(11) Continue study efforts to improve the survivability and performance of the DSP system to meet validated requirements.

(12) Assist AFSPACECOM in developing plans for transitioning to the DSP follow-on system.

(13) Plan and budget for the upgrade of the Satellite Operations Center (SOC) simulator at Peterson AFB.

B. Air Force Space Command (AFSPACECOM) will:

(1) Operate and maintain a force structure to accomplish the DSP mission.

(2) Test system capabilities on a regular and recurring basis. Provide results to SAF/AQS, AF/XOO, SIO, AFSC and AFOTEC/TESD on a semiannual basis (January and July).

(3) On an annual basis determine satellite replacement needs. Provide results to SAF/AQS, AF/XOO, AFPEO/SP and AFSC.

(4) Prepare and maintain a System Operational Requirements Document (SORD). Submit the approved SORD to AF/XOO/LEX and SAF/AQS by 1 Oct 1990.

(5) Continue study efforts to improve the survivability and performance of the DSP system to meet validated requirements.

(6) Manage the IOT&E for changes to the DSP system in accordance with the DSP TEMP.

(7) Serve as the training agency for Initial Qualification

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(3.B. AFSPACECOM, cont.)

Training (IQT) for DSP operations for personnel in Air Force Specialty Codes (AFSC) 20XX, 276X0, and 277X0.

(8) Update the Security Classification Guide as necessary.

(10) Fund organizational and intermediate (O&I) level Interim Contractor Support (ICS) requirements in FY 90 and 91.

(11) In coordination with AFPEO/SP, develop plans for transitioning to the DSP follow-on system. Provide the coordinated transition plan to SAF/AQS and USAF/X00 no later than June 1990.

(12) Work with AFPEO/SP and AFLC to develop a plan for meeting DSP-I system requirements for ground systems to ensure adequate system performance and supportability at minimum cost through transition to the follow-on system.

C. Air Force Logistics Command (AFLC) will:

(1) Designate a Deputy Program Manager for Logistics (DPML) to assist AFPEO/SP's Program Manager. Designate a System Program Manager (SPM).

(2) Budget and fund for the acquisition of common support and test equipment, provisioning data, and all AFLC centrally acquired spares and repair parts for support and test equipment.

(3) Budget and fund for O&I level ICS requirements in FY92 and beyond and for depot requirements.

(4) In coordination with AFPEO/SP, AFSC and AFSPACECOM, plan to execute the PMRT of the DSP Ground Data System in FY94.

(5) Work with AFPEO/SP and AFSPACECOM to develop a plan for meeting DSP-I system requirements for ground systems in order to ensure adequate system performance and supportability at minimum cost through transition to the follow-on system.

(6) Budget and fund for DSP Ground Data System modifications after PMRT.

(7) Develop a Weapon System Master Plan and forward to AF/XOOSO/LEXY and SAF/AQSD.

(8) With AFSPACECOM and AFPEO/SP, conduct a Depot Maintenance Activation Working Group.

D. Air Training Command (ATC) will serve as the training agency for Initial Qualification Training (IQT) for DSP operational and maintenance personnel except for personnel trained by AFSPACECOM in accordance with paragraph 3.B.(7).

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E. Air Force Operational Test and Evaluation Center (AFOTEC) will:

- (1) Monitor the AFSPACECOM managed IOT&E in accordance with the DSP TEMP.
- (2) Plan to conduct IOT&E of the survivable DSP (DSP-I) System.
- (3) Coordinate IOT&E test criteria with AFPEO/SP and AFSPACECOM before tests begin. Insure that the threat represented in OT&E is consistent with the current DSP System Threat Assessment Report.

F. Air Force Electronic Security Command (ESC/AFSCS) will:

- (1) Assist in identification of COMSEC equipment requirements.
- (2) Assist in preparation of Communications Electronics Program (CEP) documentation.

G. System Integration Office (SIO) will:

- (1) Participate as necessary in the development, acquisition, and testing process in order to review and coordinate on all documentation affecting system technical integrity or TW/AA network interface.
- (2) Measure program technical compliance with approved and documented interface and test standards. Upon satisfactory completion of configuration control and technical integrity requirements, certify DSP for integration into the TW/AA system.

H. Air Force Communications Command (AFCC) will support AFSPACECOM's effort to ensure a timely installation and test schedule.

I. Military Airlift Command (MAC) will:

- (1) Assist AFSPACECOM in determining aerospace environmental support requirements.
- (2) Provide operational aerospace environmental support.
- (3) Plan for and provide airlift support for Mobile Ground System deployments.

4. PROGRAM RESOURCES. The funding profiles shown below are for planning purposes only. This document does not constitute authority to commit, obligate, or expend funds. The funds shown below reflect the current year appropriation, Congressionally approved budget amendments, supplements or reprogrammings, and the OSD approved FYDP as updated for the FY 91 Amended President's Budget submission to the Congress.

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(4. RESOURCES, cont.)

(\$ IN MILLIONS)

Appropriation	FY89	FY90	FY91	FY92	FY93	FY94
3800	100.4	80.0	70.0	48.1	98.9	78.0
3020	432.4	346.6	326.2	307.3	632.6	338.6
3080	5.2	72.2	78.2	64.8	68.4	32.1
3300	0.0	0.0	0.0	0.0	0.0	0.0
3400	74.5	79.0	78.4	82.5	86.8	92.3
3500	34.3	34.8	35.5	36.5	37.4	38.4
TOTAL	646.8	612.6	588.3	539.3	924.2	579.5

FOR THE CHIEF OF STAFF



ROBERT S. DICKMAN, Colonel, USAF
 Deputy Director, Space & SDI Programs
 Assistant Secretary (Acquisition)

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